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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/756,981	01/14/2004	Algis P. August	VAI.P027	3713
53556 75	90 09/28/2005		EXAMINER	
	& LARSON LLP- VAI	. RAO, G NAGESH		
P.O. BOX 5068 DILLON, CO			ART UNIT	PAPER NUMBER
DIELON, CO	00433-3000		1722	
			DATE MAN ED 00/00/000	<u>.</u>

Please find below and/or attached an Office communication concerning this application or proceeding.

				Y				
•	•	Application No.	Applicant(s)					
		10/756,981	AUGUST ET AL.					
	Office Action Summary	Examiner	Art Unit					
		G. Nagesh Rao	1722					
Period fo	The MAILING DATE of this communication Reply	n appears on the cover sheet wi	th the correspondence address -	-				
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR R CHEVER IS LONGER, FROM THE MAILIN nsions of time may be available under the provisions of 37 C SIX (6) MONTHS from the mailing date of this communicatio) period for reply is specified above, the maximum statutory p ire to reply within the set or extended period for reply will, by reply received by the Office later than three months after the ed patent term adjustment. See 37 CFR 1.704(b).	IG DATE OF THIS COMMUNIC FR 1.136(a). In no event, however, may a re on. period will apply and will expire SIX (6) MON statute, cause the application to become AB	CATION. eply be timely filed THS from the mailing date of this communical ANDONED (35 U.S.C. § 133).					
Status				•				
1)	Responsive to communication(s) filed on							
·	This action is FINAL. 2b) This action is non-final.							
3)	Since this application is in condition for al	allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
4)⊠	Claim(s) 1-11 is/are pending in the application	ation.	•					
	4a) Of the above claim(s) <u>7-11</u> is/are withdrawn from consideration.							
5)	5) Claim(s) is/are allowed.							
6)⊠	6)⊠ Claim(s) <u>1-6</u> is/are rejected.							
7)	7) Claim(s) is/are objected to.							
8)□	Claim(s) are subject to restriction a	and/or election requirement.						
Applicati	ion Papers							
9)	The specification is objected to by the Exa	miner.	·					
•	The drawing(s) filed on is/are: a)	•	by the Examiner.					
·	Applicant may not request that any objection to	o the drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).					
	Replacement drawing sheet(s) including the co	orrection is required if the drawing	(s) is objected to. See 37 CFR 1.12	:1(d).				
11)	The oath or declaration is objected to by the	ne Examiner. Note the attached	Office Action or form PTO-152) .				
Priority ι	under 35 U.S.C. § 119							
12)	Acknowledgment is made of a claim for fo	reign priority under 35 U.S.C. §	119(a)-(d) or (f).					
a)	☐ All b)☐ Some * c)☐ None of:		,					
	1. Certified copies of the priority documents	ments have been received.						
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the	priority documents have been	received in this National Stage					
	application from the International B							
* * 5	See the attached detailed Office action for	a list of the certified copies not	received.					
Attachmen	t(s)							
	e of References Cited (PTO-892)		Summary (PTO-413)					
	ce of Draftsperson's Patent Drawing Review (PTO-94 mation Disclosure Statement(s) (PTO-1449 or PTO/S		s)/Mail Date nformal Patent Application (PTO-152)					
	r No(s)/Mail Date	6) Other:						

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Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-6, drawn to a system for molding articles of low density polymer, classified in class 425.
- II. Claims 7-9, drawn to a method for molding an article, classified in class 264.
- III. Claims 10-11, drawn to an injection molded article, classified in class 428.

The inventions are distinct, each from the other because of the following reasons:

- 1. Inventions II and I are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case the apparatus (i.e. a system) can be used to practice another and materially different process such as forming a glass bottle.
- 2. Inventions II and III are related as process of making and product made.

 The inventions are distinct if either or both of the following can be shown: (1) that

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the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the product (i.e. injection molded article) can be made by the compression molding of a foam preform placed into the mold.

- 3. Inventions I and III are related as apparatus and product made. The inventions in this relationship are distinct if either or both of the following can be shown: (1) that the apparatus as claimed is not an obvious apparatus for making the product and the apparatus can be used for making a different product or (2) that the product as claimed can be made by another and materially different apparatus (MPEP § 806.05(g)). In this case the apparatus (i.e. a system) can make a glass bottle.
- 4. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.
- 5. During a telephone conversation with Mr. Carl Oppedahl on 08/31/05 a provisional election was made with traverse to prosecute the invention of Group I, claims 1-6 drawn to a system for molding articles of low-density polymer.

 Affirmation of this election must be made by applicant in replying to this Office

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action. Claims 7-11 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

6. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.

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3. Resolving the level of ordinary skill in the pertinent art.

4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

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Claims 1-6 rejected under 35 U.S.C. 103(a) as being unpatentable over Larsson (US Patent No. 5,516,470) in view of Ma (US Patent No. 3,721,512).

Larsson 470 teaches a molding tool capable of being used in injection molding where as depicted in various embodiments (Figures 1-5) is a mold comprising a plurality of mold elements which are relatively movable between a closed position, for forming an enclosed cavity defining the shape of a said article, and an open position, capable of allowing removal of a said article formed by the molding cavity. The mold further comprising of a heating and cooling means with valves to adequately regulate heating and cooling flow applied to the mold elements forming the mold cavity and an injection orifice permitting injection therethrough into said enclosed cavity (See Cols 6-11 Lines 1-68).

Larsson 470 fails to teach the use of an extruder as the device injecting the material into the mold cavity. Although it is well known to commonly use an extruder when injecting thermoplastic material into a mold cavity.

Nonetheless Ma 512 pertains to an apparatus used for injection molding where as seen in Figure 1 a screw extruder is coupled to a mold cavity setup to

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inject a material such as various types of polymers into the mold cavity for molding.

It would be obvious to one skilled in the art to modify the teachings of Larsson 470 with that of Ma 512 to ensure thermoplastic materials are properly injected into the mold cavity via a screw extruder means.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to G. Nagesh Rao whose telephone number is (571) 272-2946. The examiner can normally be reached on 9AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on (571) 272-1166. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ROBERT DAVIS
PRIMARY EXAMINER
GROUP 1800 / 700

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